

## CLAIMS

1. Use of a preparation based on an extract of algae of the Dictyotales family, with a view of producing a topical composition intended for cosmetic purposes, with a view to the maturation of Keratinocytes, with amplification of the synthesis of the cytokins and increase of the desmosomial proteins.
2. Use of a preparation on a basis of extract of algae of the Dictyotales family, according to claim 1, characterized in that the active principle is a product prepared after extraction from the algae and purification by HPLC on grafted silica in C<sub>18</sub> of a raw extract then elution by a mixture of methanol/water, to isolate an active fraction possessing a period of retention of between 9 and 12 minutes.
3. Use of a preparation according to claim 1, in which the active principle results from an ethanol or acetone extract of the alga *Padina pavonica*.
4. Use of a preparation according to claim 1 or claim 2, in which the extract of *Padona pavonica* is evaporated until dry and then dispersed in a liquid or solid inert support, and diluted in a liquid or solid inert support.
5. Use of a preparation according to claim 1 or claim 2, in which the extract of *Padina pavonica* is incorporated into a support or vehicle appropriate to the achievement of topical preparations in an oily or aqueous phase, or dry, such as creams, suspensions, emulsions, gels, ointments or powder.
6. Use of a composition according to claim 1 or claim 2, in which the extract of *Padina pavonica* is incorporated into a solution of polyethylene glycol containing a dispersant or a surfactant, and in which a silicone oil is added to the solution to produce a fluid emulsion.
7. Use of a preparation with a base of extract of algae of the Dictyotales family according to claim 1, in which the active principle content ranges from 0.1 to 200 g per kg of preparation.

8. Use of a preparation based on an extract of algae of the Dictyotales family according to claim 1 or claim 2, in which the active principle content ranges from 4 to 150 g per kg of preparation.
9. Use of a preparation based on an extract of algae of the Dictyotales family according to claim 1 or claim 2, in which the concentration of extract of algae is dosed in activity to 200,000 Units (UA) per litre.
10. Use of a preparation based on an extract of algae of the Dictyotales family according to claim 1 or claim 2, in which the *Padina pavonica* extract content ranges from 20 to 80,000 Units of activity (UA) per kg of active principle on a support, per kg of final topical preparation.
11. Use of a preparation based on an extract of algae of the Dictyotales family according to claim 1 or claim 2, in culture media, to increase the maturation of Keratinocytes.